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<110> Randy M. Berka
Michael W. Rey
Wendy T. Yoder

<120> Methods For Producing Polypeptides In
Cyclohexadepsipeptide-Deficient Cells

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				85					90					95	
Gln	Thr	Pro	Ala	Leu	Arg	Ala	Phe	Ala	Phe	Thr	Ser	Asp	Ser	Gly	Lys
			100					105					110		
Thr	Ser	Gln	Val	Ile	Leu	Lys	Asp	Ser	Phe	Val	Phe	Ser	Trp	Met	Cys
		115					120					125			
Trp	Ser	Ser	Ser	Ser	Ser	Pro	Asp	Glu	Val	Val	Arg	Asp	Glu	Ala	Ala
	130					135					140				
Ala	Ala	Ala	Ser	Gly	Pro	Arg	Cys	Asn	Arg	Phe	Val	Leu	Leu	Glu	Asp
145					150					155					160
Met	Gln	Thr	Lys	Lys	Cys	Gln	Leu	Val	Trp	Thr	Phe	Ser	His	Ala	Leu
			165						170					175	
Val	Asp	Val	Thr	Phe	Gln	Gln	Arg	Val	Leu	Ser	Arg	Val	Phe	Ala	Ala
			180					185					190		
Tyr	Lys	His	Glu	Lys	Asp	Thr	His	Arg	Pro	Glu	Thr	Pro	Glu	Ser	Ser
	195						200					205			
Asp	Ala	Thr	Asp	Thr	Asp	Ser	Gln	Ser	Val	Ser	Val	Val	Ser	Met	Ser
	210					215					220				
Cys	Glu	Asp	Asn	Ala	Val	Ser	Ala	Thr	His	Phe	Trp	Gln	Thr	His	Leu
225					230					235					240
Asn	Asp	Leu	Asn	Ala	Ser	Val	Phe	Pro	His	Leu	Ser	Asp	His	Leu	Met
			245						250					255	
Val	Pro	Asn	Pro	Thr	Thr	Thr	Ala	Glu	His	Arg	Ile	Thr	Phe	Pro	Leu
			260					265					270		
Ser	Gln	Lys	Ala	Leu	Ser	Asn	Ser	Ala	Ile	Cys	Arg	Thr	Ala	Leu	Ser
		275					280					285			
Ile	Leu	Leu	Ser	Arg	Tyr	Thr	His	Ser	Asp	Glu	Ala	Leu	Phe	Gly	Ala
	290					295					300				
Val	Thr	Glu	Gln	Ser	Leu	Pro	Phe	Asp	Lys	His	Tyr	Leu	Ala	Asp	Gly
305					310					315					320
Thr	Tyr	Gln	Thr	Val	Ala	Pro	Leu	Arg	Val	His	Cys	Gln	Ser	Asn	Leu
			325						330					335	
Arg	Ala	Ser	Asp	Val	Met	Asp	Ala	Ile	Ser	Ser	Tyr	Asp	Asp	Arg	Leu
			340					345					350		
Gly	His	Leu	Ala	Pro	Phe	Gly	Leu	Arg	Asp	Ile	Arg	Asn	Thr	Gly	Asp
	355						360					365			
Asn	Gly	Ser	Ala	Ala	Cys	Asp	Phe	Gln	Thr	Val	Leu	Leu	Val	Thr	Asp
	370					375					380				
Gly	Ser	His	Val	Asn	Asn	Gly	Ile	Asn	Gly	Phe	Leu	Gln	Gln	Ile	Thr
385					390					395					400
Glu	Ser	Ser	His	Phe	Met	Pro	Cys	Asn	Asn	Arg	Ala	Leu	Leu	Leu	His
			405						410					415	
Cys	Gln	Met	Glu	Ser	Ser	Gly	Ala	Leu	Leu	Val	Ala	Tyr	Tyr	Asp	His
			420					425					430		
Asn	Val	Ile	Asp	Ser	Leu	Gln	Thr	Thr	Arg	Leu	Leu	Gln	Gln	Phe	Gly
	435						440					445			
His	Leu	Ile	Lys	Cys	Leu	Gln	Ser	Pro	Leu	Asp	Leu	Ser	Ser	Met	Ala
	450					455					460				
Glu	Val	Asn	Leu	Met	Thr	Glu	Tyr	Asp	Arg	Ala	Glu	Ile	Glu	Ser	Trp
465					470					475					480
Asn	Ser	Gln	Pro	Leu	Glu	Val	Gln	Asp	Thr	Leu	Ile	His	His	Glu	Met
			485						490					495	
Leu	Lys	Ala	Val	Ser	His	Ser	Pro	Thr	Lys	Thr	Ala	Ile	Gln	Ala	Trp
		500						505					510		
Asp	Gly	Asp	Trp	Thr	Tyr	Ser	Glu	Leu	Asp	Asn	Val	Ser	Ser	Arg	Leu
		515					520					525			

Ala	Val	His	Ile	Lys	Ser	Leu	Gly	Leu	Arg	Ala	Gln	Gln	Ala	Ile	Ile
530						535					540				
Pro	Val	Tyr	Phe	Glu	Lys	Ser	Lys	Trp	Val	Ile	Ala	Ser	Met	Leu	Ala
545					550					555					560
Val	Leu	Lys	Ser	Gly	Asn	Ala	Phe	Thr	Leu	Ile	Asp	Pro	Asn	Asp	Pro
				565						570				575	
Pro	Ala	Arg	Thr	Ala	Gln	Val	Val	Thr	Gln	Thr	Arg	Ala	Thr	Val	Ala
			580					585					590		
Leu	Thr	Ser	Lys	Leu	His	Arg	Glu	Thr	Val	Gln	Lys	Leu	Val	Gly	Arg
		595					600					605			
Cys	Val	Val	Val	Asp	Asp	Glu	Leu	Leu	Gln	Ser	Val	Ser	Ala	Ser	Asp
610						615					620				
Asp	Phe	Ser	Ser	Leu	Thr	Lys	Ser	Gln	Asp	Leu	Ala	Tyr	Val	Ile	Phe
625					630				635						640
Thr	Ser	Gly	Ser	Thr	Gly	Asp	Pro	Lys	Gly	Ile	Met	Ile	Glu	His	Arg
				645					650					655	
Ala	Phe	Ser	Ser	Cys	Ala	Leu	Lys	Phe	Gly	Ala	Ser	Leu	Gly	Ile	Asn
			660					665					670		
Ser	Asp	Thr	Arg	Ala	Leu	Gln	Phe	Gly	Thr	His	Ala	Phe	Gly	Ala	Cys
		675					680					685			
Leu	Leu	Glu	Ile	Met	Thr	Thr	Leu	Ile	Asn	Gly	Gly	Cys	Val	Cys	Ile
690						695					700				
Pro	Ser	Asp	Asp	Asp	Arg	Met	Asn	Ser	Ile	Pro	Ser	Phe	Ile	Asn	Arg
705					710					715					720
Tyr	Asn	Val	Asn	Trp	Met	Met	Ala	Thr	Pro	Ser	Tyr	Met	Gly	Thr	Phe
				725					730					735	
Ser	Pro	Glu	Asp	Val	Pro	Gly	Leu	Ala	Thr	Leu	Val	Leu	Val	Gly	Glu
			740					745					750		
Gln	Met	Ser	Ser	Ser	Val	Asn	Ala	Ile	Trp	Ala	Pro	Lys	Leu	Gln	Leu
		755					760					765			
Leu	Asn	Gly	Tyr	Gly	Gln	Ser	Glu	Ser	Ser	Ser	Ile	Cys	Phe	Ala	Ser
770						775					780				
Asn	Met	Ser	Thr	Glu	Pro	Asn	Asn	Met	Gly	Arg	Ala	Val	Gly	Ala	His
785					790					795					800
Ser	Trp	Val	Ile	Asp	Pro	Asn	Asp	Ile	Asn	Arg	Leu	Val	Pro	Ile	Gly
				805					810					815	
Ala	Val	Gly	Glu	Leu	Val	Ile	Glu	Ser	Pro	Gly	Ile	Ala	Arg	Asp	Tyr
			820					825					830		
Ile	Val	Pro	Pro	Pro	Pro	Glu	Lys	Ser	Pro	Phe	Phe	Thr	Asp	Ile	Pro
		835					840					845			
Ser	Trp	Tyr	Pro	Ala	Asn	Thr	Phe	Pro	Asp	Gly	Ala	Lys	Leu	Tyr	Arg
850						855				860					
Thr	Gly	Asp	Leu	Ala	Arg	Tyr	Ala	Ser	Asp	Gly	Ser	Ile	Val	Cys	Leu
865					870					875					880
Gly	Arg														

Gly	Tyr	Ser	Asp	Lys	Ala	Leu	Asp	Glu	Asn	Arg	Phe	Val	His	Ile	Thr		
				1925					1930					1935			
Val	Asn	Asp	Gln	Thr	Val	Lys	Ala	Tyr	Arg	Thr	Gly	Asp	Arg	Val	Arg		
			1940					1945					1950				
Tyr	Arg	Ile	Gly	Asp	Gly	Leu	Ile	Glu	Phe	Phe	Gly	Arg	Met	Asp	Thr		
		1955				1960						1965					
Gln	Phe	Lys	Ile	Arg	Gly	Asn	Arg	Ile	Glu	Ser	Ala	Glu	Ile	Glu	Ala		
	1970					1975					1980						
Ala	Leu	Leu	Arg	Asp	Ser	Ser	Val	Arg	Asp	Ala	Ala	Val	Val	Leu	Gln		
1985				1990					1995						2000		
Gln	Asn	Glu	Asp	Gln	Ala	Pro	Glu	Ile	Leu	Gly	Phe	Val	Val	Ala	Asp		
			2005					2010						2015			
His	Asp	His	Ser	Glu	Asn	Asp	Lys	Gly	Gln	Ser	Ala	Asn	Gln	Val	Glu		
			2020					2025					2030				
Gly	Trp	Gln	Asp	His	Phe	Glu	Ser	Gly	Met	Tyr	Ser	Asp	Ile	Gly	Glu		
		2035				2040						2045					
Ile	Asp	Pro	Ser	Thr	Ile	Gly	Ser	Asp	Phe	Lys	Gly	Trp	Thr	Ser	Met		
	2050					2055					2060						
Tyr	Asp	Gly	Ser	Gln	Ile	Asp	Phe	Asp	Glu	Met	His	Glu	Trp	Leu	Gly		
2065				2070				2075						2080			
Glu	Thr	Thr	Arg	Thr	Leu	His	Asp	Asn	Arg	Ser	Leu	Gly	Asn	Val	Leu		
			2085					2090					2095				
Glu	Ile	Gly	Thr	Gly	Ser	Gly	Met	Ile	Leu	Phe	Asn	Leu	Asp	Ser	Arg		
			2100				2105						2110				
Leu	Glu	Ser	Tyr	Val	Gly	Leu	Glu	Pro	Ser	Arg	Ser	Ala	Ala	Ala	Phe		
	2115					2120						2125					
Val	Asn	Lys	Ala	Thr	Glu	Ser	Ile	Pro	Ser	Leu	Ala	Gly	Lys	Ala	Lys		
	2130					2135					2140						
Val	Gln	Val	Gly	Thr	Ala	Thr	Asp	Ile	Gly	Gln	Val	Asp	Asp	Leu	His		
2145				2150				2155						2160			
Pro	Asp	Leu	Val	Val	Leu	Asn	Ser	Val	Ile	Gln	Tyr	Phe	Pro	Ser	Ser		
			2165					2170					2175				
Glu	Tyr	Leu	Ala	Glu	Ile	Ala	Asp	Thr	Leu	Ile	His	Leu	Pro	Asn	Val		
		2180				2185						2190					
Gln	Arg	Ile	Phe	Phe	Gly	Asp	Val	Arg	Ser	Gln	Ala	Thr	Asn	Glu	His		
	2195					2200					2205						
Phe	Leu	Ala	Ala	Arg	Ala	Ile	His	Thr	Leu	Gly	Lys	Asn	Ala	Thr	Lys		
	2210				2215						2220						
Asp	Asp	Val	Arg	Gln	Lys	Met	Ala	Glu	Leu	Glu	Asp	Met	Glu	Glu	Glu		
2225				2230				2235						2240			
Leu	Leu	Val	Glu	Pro	Ala	Phe	Phe	Thr	Ser	Leu	Lys	Asp	Arg	Phe	Pro		
			2245					2250					2255				
Gly	Leu	Val	Glu	His	Val	Glu	Ile	Leu	Pro	Lys	Asn	Met	Glu	Ala	Val		
		2260				2265						2270					
Asn	Glu	Leu	Ser	Ala	Tyr	Arg	Tyr	Ala	Ala	Val	Val	His	Val	Arg	Gly		
	2275					2280						2285					
Ser	Leu	Gly	Asp	Glu	Leu	Val	Leu	Pro	Val	Glu	Lys	Asp	Asp	Trp	Ile		
	2290				2295						2300						
Asp	Phe	Gln	Ala	Asn	Gln	Leu	Asn	Gln	Lys	Ser	Leu	Gly	Asp	Leu	Leu		
2305				2310				2315						2320			
Lys	Ser	Ser	Asp	Ala	Ala	Ile	Met	Ala	Val	Ser	Lys	Ile	Pro	Phe	Glu		
			2325					2330					2335				
Ile	Thr	Ala	Phe	Glu	Arg	Gln	Val	Val	Ala	Ser	Leu	Asn	Ser	Asn	Ile		
	2340					2345						2350					
Asp	Glu	Trp	Gln	Leu	Ser	Thr	Ile	Arg	Ser	Ser	Ala	Glu	Gly	Asp	Ser		
	2355					2360						2365					
Ser	Leu	Ser	Val	Pro	Asp	Ile	Phe	Arg	Ile	Ala	Gly	Glu	Ala	Gly	Phe		
	2370					2375						2380					

Arg	Val	Glu	Val	Ser	Ser	Ala	Arg	Gln	Trp	Ser	Gln	Asn	Gly	Ala	Leu
2385					2390					2395					2400
Asp	Ala	Val	Phe	His	His	Cys	Cys	Ser	Gln	Gly	Arg	Thr	Leu	Val	Asn
				2405					2410					2415	
Phe	Pro	Thr	Asp	His	His	Leu	Arg	Gly	Ser	Asp	Leu	Leu	Thr	Asn	Arg
			2420					2425					2430		
Pro	Leu	Gln	Arg	Leu	Gln	Asn	Arg	Arg	Ile	Ala	Ile	Glu	Val	Arg	Glu
		2435				2440						2445			
Arg	Leu	Arg	Ser	Leu	Leu	Pro	Ser	Tyr	Met	Ile	Pro	Ser	Asn	Ile	Val
	2450				2455					2460					
Val	Leu	Asp	Lys	Met	Pro	Leu	Asn	Ala	Asn	Gly	Lys	Val	Asp	Arg	Lys
2465				2470						2475					2480
Glu	Leu	Ser	Arg	Arg	Ala	Lys	Val	Val	Pro	Lys	Gln	Gln	Thr	Ala	Ala
			2485					2490						2495	
Pro	Leu	Pro	Thr	Phe	Pro	Ile	Ser	Glu	Val	Glu	Val	Ile	Leu	Cys	Glu
			2500					2505					2510		
Glu	Ala	Thr	Glu	Val	Phe	Gly	Met	Lys	Val	Asp	Ile	Thr	Asp	His	Phe
		2515				2520						2525			
Phe	Asn	Leu	Gly	Gly	His	Ser	Leu	Leu	Ala	Thr	Lys	Leu	Ile	Ser	Arg
	2530				2535					2540					
Ile	Asp	Gln	Arg	Leu	Lys	Val	Arg	Ile	Thr	Val	Lys	Asp	Val	Phe	Asp
2545				2550						2555					2560
His	Pro	Val	Phe	Ala	Asp	Leu	Ala	Ser	Val	Ile	Arg	Gln	Gly	Leu	Gly
			2565					2570						2575	
Leu	Gln	Gln	Pro	Val	Ser	Asp	Gly	Gln	Gly	Gln	Asp	Arg	Ser	Ala	His
			2580					2585					2590		
Met	Ala	Pro	Arg	Thr	Glu	Thr	Glu	Ala	Ile	Leu	Cys	Asp	Glu	Phe	Ala
	2595					2600						2605			
Lys	Val	Leu	Gly	Phe	Gln	Val	Gly	Ile	Thr	Asp	Asn	Phe	Phe	Asp	Leu
	2610				2615					2620					
Gly	Gly	His	Ser	Leu	Met	Ala	Thr	Lys	Leu	Ala	Val	Arg	Ile	Gly	His
2625				2630						2635				2640	
Arg	Leu	Asp	Thr	Thr	Val	Ser	Val	Lys	Asp	Val	Phe	Asp	His	Pro	Val
			2645					2650						2655	
Leu	Phe	Gln	Leu	Ala	Ile	Ala	Leu	Asp	Asn	Leu	Val	Gln	Ser	Lys	Thr
		2660						2665					2670		
Asn	Glu	Ile	Val	Gly	Gly	Arg	Glu	Met	Ala	Glu	Tyr	Ser	Pro	Phe	Gln
	2675					2680						2685			
Leu	Leu	Phe	Thr	Glu	Asp	Pro	Glu	Glu	Phe	Met	Ala	Ser	Glu	Ile	Lys
	2690				2695					2700					
Pro	Gln	Leu	Glu	Leu	Gln	Glu	Ile	Ile	Gln	Asp	Ile	Tyr	Pro	Ser	Thr
2705				2710						2715					2720
Gln	Met	Gln	Lys	Ala	Phe	Leu	Phe	Asp	His	Thr	Thr	Ala	Arg	Pro	Arg
			2725		</										

